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Assistant Commissioner for Patents Washington, District of Columbia 20231	
Sir:	
Please file the following enclosed patent application papers. Applicant #1, Name: CALVIW WALKOV	^
Applicant #2, Name.	
Title Location Specific Alan	m Rolay (L.S.A.R)
Specification, Claims, and Abstract: Nr. of Sheets	
☑ Declaration: Date Signed. ☑/7/99	
☑ Drawing(s): Nr. of Sheets Enc.: Formal: Informal:	9
⊠ Small Entity Declaration of Inventor(s)	
☐ Assignment enclosed with cover sheet and recordal fee; please re	
☑ Check for \$ _3 80,00 for:	
\boxtimes \$ 380.00 for filing fee (not more than three	e independent claims and twenty total claims are presented?
additional if Assignment is encl	
duditional it Assignment is encr	used for recordar
☐ Disclosure Document Program reference letter.	
Pursuant to 35 U.S.C. §119(e)(i), applicant(s) claim priority of Pr filed	ovisional Patent Application Ser. Nr. 60/118/978
X Return Receipt Postcard Addressed to Applicant #1.	
Request Under MPEP § 707.07(j): The undersigned, a pro-se patentable subject matter disclosed in this application, but feels the Examiner draft one or more allowable claims for applicant.	
Very respectfully, Cally Cealles	
Applicant #1 Signature	Applicant #2 Signature
1840 Switzer	
Address (Send Correspondence Here) St. Logis MG 63147	Address
51,000/5,710 65 171	
Express Mail Label # (EJ925309092U	S ; Date of Deposit 199 9 8/7
I hereby certify that this paper or fee is being deposited with the United Addressee" service under 37 CFR 1 10 on the date indicated above and sioner for Patents, Washington, DC 20231."	
Signed Califa Walker	
Signed	ntor

In the United States Patent and Trademark Office

First/Sole Applicant CAlvin WALL	Car	
Joint/Second Applicant. Title: "Location Specific A	olarm Ralay (L.S.A,R)	
Small Entity Declaration-	-Independent Inventor(s)	
As a below-named inventor, I hereby declare that I qualify as an indepaying reduced fees under Section 41(a) and (b) of Title 35 United 3 above-identified invention described in the specification filed herew under no obligation under any contract or law to assign, grant, convidence of the classified as an independent inventor under 37 CF which would not qualify as either (i) a small business concern under 1.9(e).	States Code, to the Patent and Trademark Office with regard to my with. I have not assigned, granted, conveyed, or licensed—and amoney, or license—any rights in the invention to either (a) any person FR 1.9(c) if that person had made the invention, or (b) any concern	
Each person, concern, or organization to which I have assigned, grace contract or law to assign, grant, convey, or license—any rights in the	· · · · · · · · · · · · · · · · · · ·	
There is no such person, concern, or organization.		
 Any applicable person, concern, or organization is listed below. 		
Full Name:		
Address:		
I acknowledge a duty to file, in the above application for patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate (37 CFR 1 28(b)) I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief		
are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.		
Calin Walker		
Signature of Sole/First Inventor	Signature of Joint/Second Inventor	
CALVIN WALKER	Print Name of Joint/Second Inventor	
Calein Walker Signature of Sole/First Inventor CALVIN WALKER Print Name of Sole/First Inventor 8/7/99	CHINT MATING OF ANY OSERVING HIMSHIRDS	
Date of Signature	Date of Signature	

^{*}Note A separate Small Entity Statement is required from any listed entity

PATENT Application for CAlvin Walker for Location Specfic Alarm Relay (L.S.A.R)

This application claims the benefit of Provisinal Patent Application Ser # 60/118,978

Field: 02/08/99

Pat. Pend. EJ47764513645

Background - Field of Invention

This invention relates to home detection devices, such as Smoke, Carbon Monoxide, radon detectors.

This invention specifically relates to the encoding, transmission, receiving and Audio output of Data.

Location and type of Alarm.

Background - Description of Prior Ant

Hardware and electronic Stores Supply Consumers with smoke/carbon monoxide/Radon detector that output a high frequency alarm and/or a flashing strobe lite in Response to the detected problem.

Professional Alanm Installation provides for the hardwining, of Alanm systems to Central movitors.

where information such as type of Alarm, and Zone are displayed.

Background - Disadvantages of Prior Art

- (a) Hardware And electronic stores supply detectors but they do not transmit Data.
- (b) They don't provide Alarm/Voice output.
- (c) They do not specify a location on type of Alarm.
- (d) detectors do not monitor each other.
- (a) They contain No memory.

Professional Alarm Installation

(f) Provides only a general Alarm monitored At a central monitor

Objects and Advantages

Accordingly, Several objects and Advantages of my Invention are...

- (a) Lass cost than Professional installed Systems
- (b) Can be installed easily, no wiring.
- (c) Usable in locations where hardwiring is not possible or practical.
- (d) AlterNATING Voice/High frequency Alarm Provides greater Attention Value with lass Stress potential.
- (a) Notification of type and location of Alarm Provided at each Alarm Station.

turther objects and advantages are less pawic due to voice output with immedate location Information Other systems although they may be heard give no location

A disorented person may pawic and run in to a fine Instand of Away.

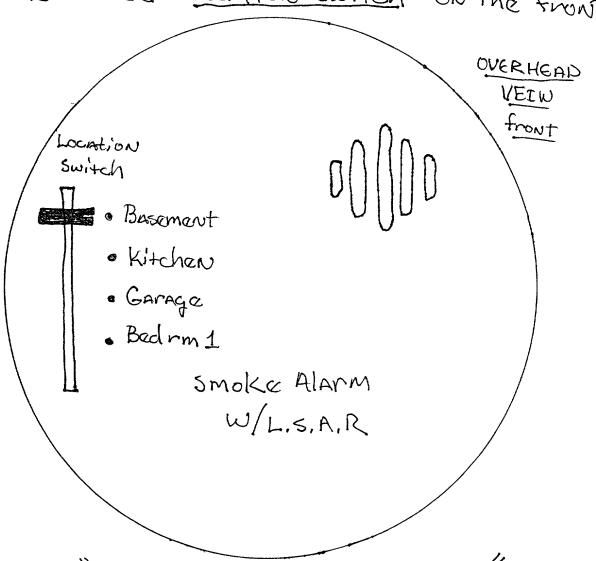
Also by relaying data throughout the system aw Alarm, which would not be heard because of its location i.e. "Garage or Basement" will now be recaived at each location.

With the use of a master movitor "for inside a bedroom location, the volume level of an Alarm can be rasized for the hearing Impaired, or a strobe lite can be added.

This System CAN CASYly be expanded, or rearranged as needed by the consumer or totally relocated at any time.

Location Specific Alarm Relay

"L.S.A.R" is an Information device it does not detect smoke or carbon monoxide. when completed it should look like a standard "smoke Detector" except for the Added "Location switch" on the front.



And Communication Address port on back, shown on NEXT Page.

The (L.S.A.R) Protype system is Conected to the smoke detector in only two places.

ONE is the 9volt Battery Ground to be used as a voltage refrence and the other place is the #10 pin of the IC chip

M 187-35-05 QXF9419 TO L.S.A.R

This Piw go's high smoke Detector GND1 +5v with the datection of smoke and cycles the Alarm.

> OVERHEAD VEIW BACK

> > / Each unit in System must bo

Set to same Address.

Communication Address
Port

7

Operation (L.S, A, R)

The L.S.A.R is self operational, after setting the communication address code 8-bits, on the back of each unit in the System to match.

You pick your location to Install

Example "Garage" set location switch

on front of eletector to

Garage, Installation complete. Repeat the setting of the

Location Switch for each

Unit IN SYSTEM.

Conclustion, Ramifications, and scope.

The advantages over existing systems are many for example, in the "Top of the line" hard wired home security systems, which cost a great deal more, A fire in the basement would cause all alarms to go off, and maybe a voice message at the keypad by the front door would give A general location, say ZONE Z, which is actually not a location but a type of Alarm lets say smoke, now you no that one of the TEN smoke Detectors has detected a Fine which way would you run.

the train of the t

In a fire, the first few minutes are the most important. A high frequency Alarm Alternating with a voice message, has the best chance of waking you sooner.

And when you do wake, the system provides all the information you need at each station

This system is the Evolution of the (smoke/carbon monoxide/RADON) Detectors and will greatly Inhance there willity to save lives AND property.

Thus the scope of the invention should be determined by the appended claims and their legal equivalents, nather than the examples given.

Independent Claim

1) Each unit has a location switch which CAN be set by user to output and nelay specific Information.

Depardent Claim

1) Future Systems with multiple alent Sensors will Insert Proper "Hert Type" Into Message Playback.

Indapendent Claim

2) Each unit monitors all other units within system.

Depandant Claim

1) "Black Box" - Feature, Ivitial Alarm"
received is placed in memory, used to
Veirify location fire began.

Independent Claim

3) Each unit has the ability to relay its own detection of an Alarm or the detection of Anther units Alarm.

Dependent Claim

1) "Master Moinitor" - Outputs Type and location message Plus, self-Recorded escape plan for each location.

Location Specific Alarm Relay (L.S.A.R)

Abstract: Information Relay and Voice/high frequency Alent device with Selectable Location Specific output. (1)

Detection Relay RF 2 Receiver

Transmitten

Valid ID relay

Control

A

3

Control

Control

Control

Control

Control

A

B

4-Bit

DATA

Selector

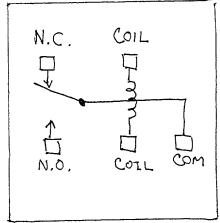
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The first that the fi

Location Switch 5

Voice Chip Major Componets (L.S.A,R)

Detection Ralay

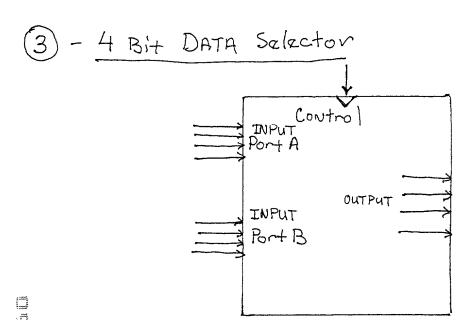


5VDC PC RELAY SPDT. RAdio Shack CA+ & 275-243 USED TO CONTROL IZVDC SUPPLY FOR RF RECEIVER/TRANSMITTER.

DSEVORAL INDVE RF Receiver/Transmitter

Ming/microsystems - 12-Bit Decoden Mothenboard, RE-01 - RF RECEIVER BOARD - 12-Bit ENCODER mother board, TX-01 - RF Transmitter Board

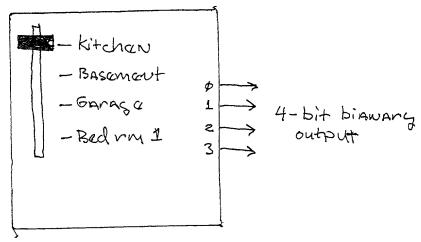
Major Componets (L.S.A,R)



& Volts on control line Input Port B connected to output.

5 Volts on Control live Imput Port A connected to output,

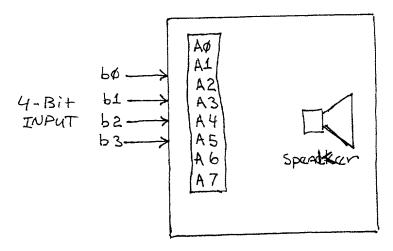
- Location Switch



Positional switch outputs biamary Location cope,

Major Componets (L.S.A.R)

(5) - Voice Chip (Chip Condar)



ISD - Information Storage Devices 1200/1400 Series
4-Bit Input Hard wired into 8-Bit Address
As shown below.

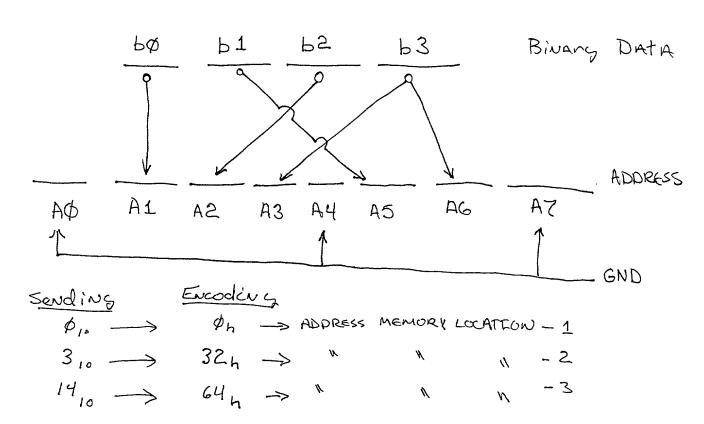
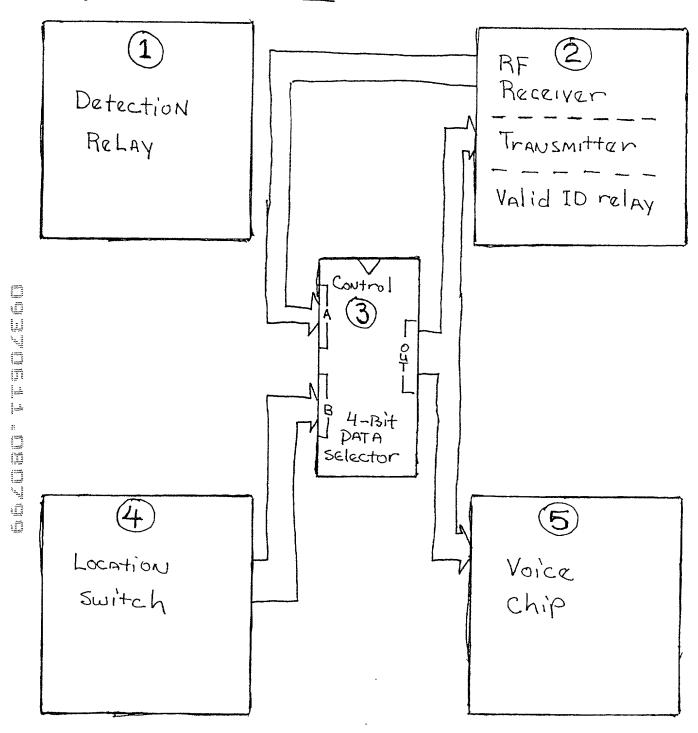


Diagram - 2: DATA PATH (L.S. A. R)



DATA PATH (L.S.A.R)

Two modes of operation, mode 1: Detection Sensing device activation.

(smoke/monoxida detector) trips the

Detection Relay 1). DATA From the Location Switch 4) is routed thru DATA

selector (3) (PORT B) To Output.

Volts ON DATA SELECTOR CONTROL, DATA Applied to Transmitter (2) and Voice chip (5).

Mode 2: Relay

RF Receiver 2) detects a communication Code match, 8-bit address Code.

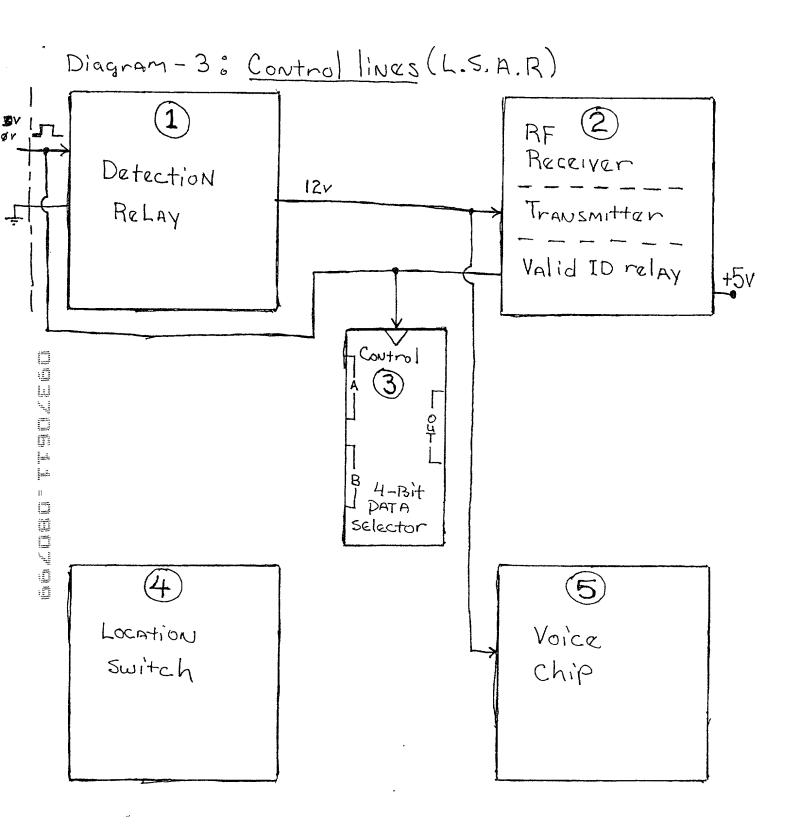
4-bits Data latched at Data Selecton 3)
Port A.

Vaild ID Relay 2 closes which applies + 5 volts to the Data selector 3 control routing Data thru Port A to transmitter 2 and voice chip 5

Vaild ID Relay (2) also triggers

Detection Relay (1) which powers the

transmitter (2) and voice chip (5).



Control lines (L.S.A.R)

Two modes of openation, mode 1: Detection.

Transitional (voltage/current) signal

From a moinitored device cause's The Detection

Relay (1) to open which applies 12 volts to

the RF transmitter (2) AND The Voice chip (5)

Mode 2: Relay

RF-Receiver (2) Vailidates a comunication Coda match, Vaild ID Ralay (2) opens which applies + 5 volts to trip the Detection Relay (1), + 5 volts is also Applied to the Data Selector (3) control

Declaration for Utility or Design Patent Application

As a below-named inventor, I hereby declare that my residence, post office address, and citizenship are as stated below next to my name and that I believe that I am the original, first, and sole inventor [if only one name is listed below] or an original, first, and joint inventor [if plural names are listed below] of the subject matter which is claimed and for which a patent is sought on the invention, the specification of which is attached hereto and which has the following title.

· Location Specific Alarm Relay (L.S.A.R)

I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment specifically referred to in the oath or declaration. I acknowledge a duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1 56(a).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Title 18, United States Code, Section 1001, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Please send correspondence and make telephone calls to the First Inventor below

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^{*} City and state, county and state or city, state and country, if foreign